

L Number	Hits	Search Text	DB	Time stamp
1	2700	502/102,103,104,117.ccls.	USPAT	2002/10/15 21:29
2	171	502/102,103,104,117.ccls. and phenoxide	USPAT	2002/10/15 21:57
3	28	502/102,103,104,117.ccls. and phenolate	USPAT	2002/10/15 21:58
4	26	(502/102,103,104,117.ccls. and phenolate) not (502/102,103,104,117.ccls. and phenoxide)	USPAT	2002/10/15 21:58

L78 ANSWER 2 OF 2 WPIX COPYRIGHT 2002 DERWENT INFORMATION LTD  
 AN 2000-251501 [22] WPIX Full-text  
 DNC C2000-076691  
 TI New catalyst for olefin polymerization - comprising group four transition metal compound containing ligand having cyclopentadienyl skeleton and specific transition metal compound in addition to other catalyst components.  
 DC A17 E11 E12  
 PA (MITA) MITSUI CHEM INC  
 CYC 1  
 PI JP 2000063415 A 20000229 (200022)\* 65p C08F004-642 <--  
 ADT JP 2000063415 A JP 1998-227992 19980812  
 PRAI JP 1998-227992 19980812  
 IC ICM C08F004-642  
 ICS C08F010-00  
 AB JP2000063415 A UPAB: 20000508 NOVELTY - A catalyst for olefin polymerization comprises (A) a 4 group transition metal compound containing a ligand having a cyclopentadienyl skeleton, (B) a specific transition metal compound, and (C) at least one compound selected from (c-1) an organometallic compound, (c-2) an organoaluminumoxy compound and a compound forming ion pair by reacting with (A) or (B). DETAILED DESCRIPTION - (B) has formula (1). M = 3-11 group transition metal; m = 1-6: R1-R6 = H, halo, hydrocarbon group, heterocyclic residue, or O-, N-, B-, S-, P-, Si-, Ge- or Sn-containing group; n = number satisfying valence of M; X = R1, Al- or halo-containing group An INDEPENDENT CLAIM is also included for an olefin polymerization. USE - For (co)polymerization of olefin. ADVANTAGE - The catalyst has a high polymerization activity and provides polymers having a wide molecular weight distribution excellent in moldability. Dwg.0/1  
 FS CPI  
 FA AB; GI; DCN  
 MC CPI: A02-A06E1; A04-G01A; E05-B03; E05-L; E05-M; E05-N

L79 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS

AN 2000:139187 CAPLUS Full-text

DN 132:166745

TI Olefin polymerization catalysts containing transition metal  
salicylaldehyde complexes and polymerization of olefins using them

IN Saito, Junji; Yamamoto, Kunio; Mitani, Makoto; Fujita, Terunori

PA Mitsui Chemicals Inc., Japan

SO Japan Kokai Tokkyo Koho, 65 pp.

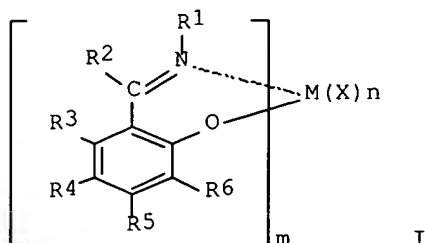
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000063415	A2	20000229	JP 1998-227992	19980812 <--
OS	MARPAT 132:166745				
GI					



AB Olefins are (co)polymerized in the presence of catalysts comprising (A) Group 4 transition metal cyclopentadienyl complexes, (B) transition metal salicylaldehyde complexes I (M = Group 3-11 transition metal; m = 1-6; R1-R6 = H, halo, hydrocarbyl, heterocycle, heteroatom-containing group; n = number for charge balance; X = H, halo, hydrocarbyl, heterocycle, heteroatom-containing group), (C) organometallic compds., organic aluminosy compds., and/or ionizable compds. with transition metals, and optionally (D) catalyst supports. Thus, ethylene was polymerized at 25° for 5 min in the presence of Me aluminosy 1.25, 1,3-dimethylcyclopentadienylzirconium dichloride 0.00025, and a Zr compound I (M = Zr, X = Cl, m, n = 2, R1 = Ph, R2-R5 = H, R6 = tert-Bu) 0.00025 mmol to give a polymer with intrinsic viscosity 2.6 dL/g and wide mol. weight distribution.

L78 ANSWER 1 OF 2 WPIX COPYRIGHT 2002 DERWENT INFORMATION LTD

AN 2001-213271 [22] WPIX Full-text

DNC C2001-063751

TI Olefin polymerization catalyst comprising transition metal complex, organic aluminumoxy compounds loaded on supporting particles.

DC A17 A60 E12

PA (MITA) MITSUI CHEM INC

CYC 1

PI JP 2000313712 A 20001114 (200122)\* 34p C08F004-642 <--

ADT JP 2000313712 A JP 1999-122168 19990428

PRAI JP 1999-122168 19990428

IC ICM C08F004-642

ICS C08F010-00

AB JP2000313712 A UPAB: 20020128 NOVELTY - A new olefin polymerization catalyst comprises supporting particles-(A), a transition metal compound-(B), and an organic aluminumoxy compound-(C) having an alkyl group to aluminum atom ratio of up to 1.8. Compound-(B) and compound-(C) are loaded on supporting particles-(A). DETAILED DESCRIPTION - A new olefin polymerization catalyst comprises supporting particles-(A), a transition metal compound-(B) of formula (1-I), and an organic aluminumoxy compound-(C) having an alkyl group to aluminum atom ratio of up to 1.8. Compound-(B) and compound-(C) are loaded on supporting particles-(A). M = Gp.3-11 transition metal; m = integer of 1-6; R1 to R7 = H, halogen, hydrocarbon group, heterocyclic compound residue, or a group containing O, N, B, S, P, Si, Ge, or Sn; n = valency of M; A = -O-, -S-, -N(R7)-, or -Se-; X = H, halogen, hydrocarbon group, heterocyclic compound residue, a group containing O, N, B, S, P, Al, halogen, Si, Ge, or Sn. Another catalyst is also claimed, which comprises a solid catalyst moiety comprises (A), (B), and (C) and an organo metallic compound-(D). USE - For producing polyolefin including polyethylene. ADVANTAGE - Polyolefin with a higher bulk density and a reduced number of fine polymer powder can be obtained. Dwg.0/1

TECH JP 2000313712 AUPTX: 20020128

TECHNOLOGY FOCUS - POLYMERS - A method of polymerizing olefin comprises (co)polymerizing olefin in the presence of the new catalyst.

KW [1] 0035-82301 CL; 0035-82302 CL; 372761-0-0-0 CL; 372744-0-0-0 CL; 372750-0-0-0 CL; 372728-0-0-0 CL; 243070-0-0-0 CL; 372762-0-0-0 CL; 372765-0-0-0 CL; 334850-0-0-0 CL; 295596-0-0-0 CL; 372749-0-0-0 CL; 243069-0-0-0 CL; 372745-0-0-0 CL; 372760-0-0-0 CL; 372738-0-0-0 CL; 372741-0-0-0 CL; 372742-0-0-0 CL; 372747-0-0-0 CL; 295595-0-0-0 CL; 334855-0-0-0 CL; 372758-0-0-0 CL; 214571-0-0-0 CL; 214570-0-0-0 CL; 0035-82303 CL; 372784-0-0-0 CL; 372791-0-0-0 CL; 372789-0-0-0 CL; 372788-0-0-0 CL; 372786-0-0-0 CL; 372776-0-0-0 CL; 372781-0-0-0 CL; 372774-0-0-0 CL; 372777-0-0-0 CL; 372778-0-0-0 CL; 372783-0-0-0 CL; 372782-0-0-0 CL; 184613-0-0-0 CL PRD

FS CPI

FA AB; GI; DCN

MC CPI: A02-A06C; A02-D; A04-G01A; E05-B02; E05-L; E05-L01; E05-M; E05-N

L79 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS

AN 2000:802045 CAPLUS Full-text

DN 133:335649

TI Catalysts and method for polymerization of olefins

IN Saito, Junji; Matsukawa, Naoto; Kawahara, Nobuo; Mitani, Makoto; Fujita, Terunori

PA Mitsui Chemical Industry Co., Ltd., Japan

SO Japan Kokai Tokkyo Koho, 34 pp.

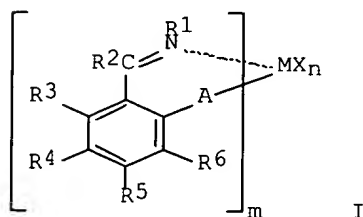
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000313712	A2	20001114	JP 1999-122168	19990428 <--
OS	MARPAT 133:335649				
GI					



AB The catalysts comprise transition metal compds. I (M = Group 3-11 transition metal; m = 1-6; A = O, S, NR7, Se; R1-R7 = H, halo, hydrocarbyl, heterocyclyl, etc.; n = number that satisfies the valent requirement of M; X = H, halo, hydrocarbyl, heterocyclyl, etc.) and organic aluminum oxy compds. (alkyl group/Al molar ratio  $\leq 1.8$ ) supported on particle supports. Thus, ethylene was polymerized in the presence of solid catalyst of I (M = Zr, m = 2, R1 = Ph, R2-R5 = H, R6 = tert-Bu, n = 2, A = O, X = Cl) and modified methylaluminum oxane (Me/Al 1.54) supported on silica (F 948) and Al(Bu-iso)3 to give a polymer showing intrinsic viscosity 9.60 dL/g and apparent d. 0.27 g/cm<sup>3</sup> with catalyst activity 19.3 kg/mmol-Zr.